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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/942,789	08/29/2001	Nathan Henderson	06-540	2943	
20306	7590 11/06/2006		EXAMINER		
	ELL BOEHNEN HUL KER DRIVE	CAO, C	CAO, CHUN		
32ND FLOC			ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60606	•	2115	-	
	·		DATE MAILED: 11/06/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)				
		09/942	,789	HENDERSON E	HENDERSON ET AL.			
Office Action Summary		Examin	ier	Art Unit	Art Unit			
		Chun C	ao	2115				
	The MAILING DATE of this communi	cation appears on t	the cover sheet w	ith the correspondence a	ddress			
Period fo								
WHICE - Extending - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAINSIONS of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months af ed patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no unication. tutory period will apply and will, by statute, cause the a	THIS COMMUNI event, however, may a d will expire SIX (6) MON application to become Al	CATION. reply be timely filed  NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	•			
Status								
1)	Responsive to communication(s) file	d on <i>25 August 20</i> 6	06.					
<i>'</i> =		b)⊠ This action is						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the m								
-	closed in accordance with the practic		•					
Disposit	ion of Claims							
4)🖂	Claim(s) 1-27 is/are pending in the ap	pplication.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-27</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restrict	tion and/or election	requirement.					
Applicat	ion Papers							
9)[	The specification is objected to by the	Examiner.						
10)[	The drawing(s) filed on is/are:	a) accepted or	b) objected to	by the Examiner.				
	Applicant may not request that any object	tion to the drawing(s	) be held in abeyar	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is requ	uired if the drawing	(s) is objected to. See 37 C	CFR 1.121(d).			
11)	The oath or declaration is objected to	by the Examiner.	Note the attached	d Office Action or form P	TO-152.			
Priority ı	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim f	or foreign priority υ	under 35 U.S.C. {	§ 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority of	documents have be	een received.					
	2. Certified copies of the priority of	documents have be	een received in A	Application No				
	3. Copies of the certified copies of	•		received in this Nationa	l Stage			
	application from the Internation	·	` **					
* (	See the attached detailed Office action	n for a list of the ce	rtified copies not	received.				
Attachmen			_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P1	r∩-048)		Summary (PTO-413) s)/Mail Date				
	mation Disclosure Statement(s) (PTO/SB/08)	· <del></del>	5) Notice of I	nformal Patent Application				
Pape	er No(s)/Mail Date		6)	<del></del> ·				

**Art Unit: 2115** 

## **DETAILED ACTION**

Page 2

1. Claims 1-27 are presented for examination.

- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/25/06 has been entered.
- 3. The rejections are respectfully maintained to the extended that is applicable to the amended claims and reproduced infra for applicant's convenience.
- 4. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hwang et al. (Hwang), U.S. publication no. 2002/0188875 in view of Miner et al. (Miner), U.S. patent no. 6,690,655.

As per claim 1, Hwang discloses a computer system comprising:

a host processor including resources supporting a full power mode, a lower power mode and a power down mode; and a network interface coupled to the host processor and to a network [fig. 4; paragraph 0009], the network interface comprising:

a memory that stores data packets in transit between the host processor and the network [Figure 3; paragraph 0024];

a medium interface unit coupled to network media supporting at least a high speed protocol and a lower speed protocol [paragraph 0024].

Art Unit: 2115

Hwang does not explicitly disclose power management logic which forces the medium interface unit from high speed protocol to the lower speed protocol in response to an event signally entry of said lower power mode.

Miner disclose that power management logic which forces the medium interface unit from high speed protocol to the lower speed protocol in response to an event signaling entry of said lower power mode [Figure 7; col. 4, lines 7-26; col. 10, lines 46-53; col. 20, lines 36-40; col. 21, lines 24-32, 48-52].

It would have been obvious to one of ordinary skill in the art at time the invention to combine the teachings of Hwang and Miner because they both disclose a network communication system, and the specify teachings of Miner stated above would have improved the performance and further reducing the amount or power consumed by the system.

As per claim 2, Miner discloses that the network interface in said lower power mode consumes less than a specified power when executing said lower speed protocol, and consumes greater than the specified power when executing said high speed protocol [col. 3, lines 13-18; col. 4, lines 20-26; col. 21, lines 24-32, 48-52].

As per claim 3, Hwang discloses that the network interface in said lower power mode consumes less than a specified power of about 1.3 watts, and the network interface requires greater than the specified power to support said high speed protocol [paragraph 0053].

As per claim 4, Hwang discloses that the network interface includes logic operating in the lower power mode using the lower speed protocol to detect a pattern in

**Art Unit: 2115** 

incoming packets, and in response to detection of said pattern, to issue a reset signal to the host processor [paragraph 0072].

As per claim 5, Hwang discloses that the medium interface unit comprises circuitry for formatting packets according to protocols compliant with 10 Megabit, 100 Megabit and Gigabit Ethernet protocol standards, and wherein said high speed protocol is Gigabit Ethernet, and said lower speed protocol is one of 10 Megabit Ethernet and 100 megabit Ethernet [paragraph 0024].

As per claim 6, Hwang discloses that the medium interface unit comprises circuitry for formatting packets according to a protocol compliant with an InfiniBand protocol standard, and wherein said high speed protocol is InfiniBand [paragraph 0024].

As per claim 7, Miner discloses that host processor monitors the network interface for a wake up event involving a loss of link or a change of link on the network interface, and wherein said power management logic blocks signals indicating said wake up event for a time interval during the power management logic circuitry forces the medium interface unit to the lower speed protocol [Figure 7; col. 4, lines 7-26; col. 10, lines 46-53; col. 20, lines 36-40].

As per claim 8, Miner discloses event signaling lower power mode is a signal generated by the host processor [Figure 7; col. 4, lines 7-26; col. 10, lines 46-53; col. 20, lines 36-40].

As per claim 9, Hwang discloses that host processor includes a system bus coupled to the network interface said system bus having a full power mode, a lower power mode and a power down mode, and said event signaling lower power mode

Art Unit: 2115

comprises a loss of power on the system bus [paragraph 0073]. Miner also discloses that host processor includes a system bus coupled to the network interface said system bus having a full power mode, a lower power mode and a power down mode, and said event signaling lower power mode comprises a loss of power on the system bus [fig. 2; col. 4, lines 7-26; col. 10, lines 46-53; col. 20, lines 36-40].

As to claims 10-18, claims 1-9 basically are the corresponding elements that are carried out the method of operating steps in claims 10-18. Accordingly, claims 10-18 are rejected for the same reason as set forth in claims 1-9.

As to claims 19-27 are written in mean plus function and contained the same limitations as claims 1-9. Therefore, same rejection is applied.

5. Applicant's arguments filed on 8/25/06, which have been fully considered but they are not persuasive. See rejection indicated above or prior office rejection.

## **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun Cao whose telephone number is 571-272-3664. The examiner can normally be reached on Monday-Friday from 7:30 am-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nov. 2, 2006

CHUNCAO PRIMARY EXAMINER